

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007287A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A23C9/152 A23C9/123 A23L1/30 A23D7/01

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23D A23C A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/61771 A (MONSANTO CO) 19 October 2000 (2000-10-19) table 8 ----- ATTA, M. B., AND IMAIZUMI, K.: "Some characteristics of crude oil extracted from roselle (Hibiscus sabdariffa L.) seeds cultivated in Egypt" JOURNAL OF OLEO SCIENCE, vol. 51, no. 7, 2002, pages 457-461, XP008025023 JAPAN OIL CHEMISTS SOCIETY, TOKYO, JP ISSN: 1345-8957 page 457, column 2 tables 1,2,4 ----- -/-	1-9
X		1-9

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Date of the actual completion of the international search

1 November 2004

Date of mailing of the International search report

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PCT/EP2004/007287

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VENKATRAMESH, M., KARUNANANDAA, B., SUN, B., GUNTER, C. A., BODDUPALLI, S. AND KISHORE, G. M.: "Expression of a <i>Streptomyces</i> 3-hydroxysteroid oxidase gene in oilseeds for converting phytosterols to phytostanols" PHYTOCHEMISTRY., vol. 62, 2003, pages 39-46, XP002262565 PERGAMON PRESS., GB ISSN: 0031-9422 page 40, column 1, paragraph 2; table 2 ----	9
X	SANDERS, D. J., MINTER, H. J., HOWES, D., AND HEPBURN, P. A.: "the safety evaluation of phytosterol esters. Part 6. The comparative absorption and tissue distribution of phytosterols in the rat." FOOD AND CHEMICAL TOXICOLOGY., vol. 38, 2000, pages 485-491, XP002262566 ISSN: 0278-6915 page 486, column 1; table 1 ----	9
X	WO 98/01759 A (FORBES MEDI TECH INC) 15 January 1998 (1998-01-15) cited in the application pages 23-24 ----	9
X	US 2003/134833 A1 (WESTER INGMAR ET AL) 17 July 2003 (2003-07-17) column 6, paragraph 1 ----	9,10
X	NORMEN, L., ET AL.: "The phytosterol content of some cereal foods commonly consumed in Sweden and in the Netherlands" JOURNAL OF FOOD COMPOSITION AND ANALYSIS., vol. 15, 2002, pages 693-704, XP002301893 GBACADEMIC PRESS, LONDON. abstract page 694, paragraph 1 ----	1-9
Y	HOWELL, T. J., ET AL.: "Phytosterols partially explain differences in cholesterol metabolism caused by corn or olive oil feeding" JOURNAL OF LIPID RESEARCH, vol. 39, 1998, pages 892-900, XP002301894 USBETHESDA, MD figure 1 ----	11
A	WO 00/64921 A (FORBES MEDI TECH INC) 2 November 2000 (2000-11-02) claim 16 ----	1-9
		-/-

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007287

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PHILIPS, K. M., RUGGIO, D.M., TOIVO, J. I., SWANK, M. A., AND SIMPKINS, A. H.: "Free and esterified sterol composition of edible oils and fats" JOURNAL OF FOOD COMPOSITION AND ANALYSIS., vol. 15, 2002, pages 123-142, XP002262567 ACADEMIC PRESS, LONDON., GB ISSN: 0889-1575 page 127, paragraph 2-4 table 2 -----	1-9
A	LING W H ET AL: "ENHANCED EFFICACY OF SITOSTANOL-CONTAINING VERSUS SITOSTANOL-FREE PHYTOSTEROL MIXTURES IN ALTERING LIPOPROTEIN CHOLESTEROL LEVELS AND SYNTHESIS IN RATS" ATHEROSCLEROSIS., vol. 118, no. 2, 1995, pages 319-331, XP002044615 AMSTERDAM, NL ISSN: 0021-9150 See whole document -----	1-9
A	US 6 531 463 B1 (HILTUNEN RAIMO ET AL) 11 March 2003 (2003-03-11) claims 1-15 -----	1-9
A	SILVA DA W G ET AL: "LA NOCCIOLA BRASILIANA (BERTHOLLETIA EXCELSA H.B.K., FAMIGLIA DELLE LECYTHIDACEAE). NOTA II. I LIPIDI - STUDI SULLA COMPOSIZIONE CHIMICA" RIVISTA ITALIANA DELLE SOSTANZE GRASSE., vol. 74, no. 7, July 1997 (1997-07), pages 311-314, XP000852534 MILAN., IT ISSN: 0035-6808 See whole document -----	1-9

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007287

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0061771	A	19-10-2000	AU BR CA CN EP WO	4231600 A 0010597 A 2372120 A1 1360637 T 1169462 A2 0061771 A2		14-11-2000 13-02-2002 19-10-2000 24-07-2002 09-01-2002 19-10-2000
WO 9801759	A	15-01-1998	US AU CA WO EP HU PL	5965449 A 3251897 A 2259519 A1 9801759 A1 0912900 A1 9904042 A2 331006 A1		12-10-1999 02-02-1998 15-01-1998 15-01-1998 06-05-1999 28-03-2000 21-06-1999
US 2003134833	A1	17-07-2003	WO US US US US AU CA DE DE DK EP FI FI FI HK HU JP NO PL RU US	9219640 A1 6544973 B1 6174560 B1 5958913 A 2004067921 A1 664827 B2 2102112 A1 69127207 D1 69127207 T2 594612 T3 0594612 A1 934869 A ,B, 964951 A 20011891 A 1001951 A1 65318 A2 6506909 T 933966 A 166991 B1 2095367 C1 5502045 A		12-11-1992 08-04-2003 16-01-2001 28-09-1999 08-04-2004 07-12-1995 04-11-1992 11-09-1997 22-01-1998 01-09-1997 04-05-1994 03-11-1993 11-12-1996 26-09-2001 24-07-1998 02-05-1994 04-08-1994 02-11-1993 31-07-1995 10-11-1997 26-03-1996
WO 0064921	A	02-11-2000	AU BR WO CA EP JP	4279400 A 0010062 A 0064921 A2 2372154 A1 1173464 A2 2002543088 T		10-11-2000 21-05-2002 02-11-2000 02-11-2000 23-01-2002 17-12-2002
US 6531463	B1	11-03-2003	FI AU AU BR CA CN CZ EE EP WO HK HU ID JP	980450 A 751879 B2 2427699 A 9908414 A 2322173 A1 1118248 B 20003122 A3 200000498 A 1065945 A1 9943218 A1 1036199 A1 0102291 A2 26998 A 2002504359 T		28-08-1999 29-08-2002 15-09-1999 17-10-2000 02-09-1999 20-08-2003 12-09-2001 15-02-2002 10-01-2001 02-09-1999 07-05-2004 29-05-2002 22-02-2001 12-02-2002

INTERNATIONAL SEARCH REPORTInternational Application No
PCT/EP2004/007287

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 6531463	B1	NO	20004269 A	25-08-2000
		NZ	506467 A	28-03-2002
		PL	342512 A1	18-06-2001
		RU	2198531 C2	20-02-2003